

Abstract

A green light-emitting phosphor for a display emits green light when excited by an electron beam of an acceleration voltage of 15 kV or less and is composed of particles of a manganese-activated zinc silicate phosphor having an average particle size of 1.0 to 2.0 μm . A field-emission display, comprises a phosphor layer including a blue light-emitting phosphor layer, a green light-emitting phosphor layer and a red light-emitting phosphor layer, an electron emitting source which emits an electron beam having an acceleration voltage of 15 kV or less onto the phosphor layer to make it to emit light, and an envelope which vacuum-seals the electron emitting source and the phosphor layer, wherein the green light-emitting phosphor layer includes the green light-emitting phosphor composed of the manganese-activated zinc silicate phosphor having an average particle size of 1.0 to 2.0 μm .